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PATENT APPLICATION of:
DARRELL R ANDERSON ET AL.

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Group Art Unit: 1644

Filed: June 6, 2001

Examiner: Phillip Gambel

Title: NON-AGONISTIC ANTIBODIES TO HUMAN GP39, COMPOSITIONS
CONTAINING AND THERAPEUTIC USE THEREOF

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. One copy of each reference is submitted herewith.

It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

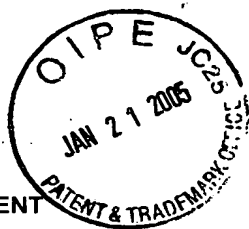
This Information Disclosure Statement is being filed after submission of a request for continued examination and prior to mailing of a subsequent official action. No certification or fee is required.

Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 21, 2005

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U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date
	AR	4,816,397	03/1989	Boss			
	BR	4,816,567	03/1989	Cabilly			
	CR	4,975,369	12/1990	Beavers			
	DR	4,978,745	12/1990	Schoemaker			
	ER	5,092,585	5/1999	Noelle			
	FR	5,683,693	11/1997	Noelle			
	GR	5,747,037	05/1998	Noelle			
	HR	5,474,771	12/1995	Lederman			
	IR	5,833,987	04/1998	Noelle			
	JR	5,876,718	03/1999	Noelle			

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
	KR	WO93/08207	04/1993	PCT	Armitage				
	LR	WO93/09812	05/1993	PCT	Lederman				
	MR	WO94/04570	03/1994	PCT	Heath				
	NR	WO95/06480	03/1995	PCT	Noelle				
	OR	WO95/28957	11/1995	PCT	Noelle				
	PR	WO96/23071	08/1996	PCT	Siadak				
	QR	WO97/17446	05/1997	PCT	Black				
	RR	0 519 596 A1	12/1992	EPO	Padlan				
	SR	0 555 880 A2	08/1993	EPO	Aruffo				
	TR	0 555 880 A3	08/1993	EPO	Aruffo				
	UR	0 585 943 A2	03/1994	EPO	Aruffo				
	VR	0 451 216 B1	10/1991	EPO	Queen				
	WR	0 682 040 A1	11/1995	EPO	Queen				

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)				
	XR	Alderson MR, et al., "CD40 expression by human monocytes: regulation by cytokines and activation of monocytes by the ligand for CD40," <i>J Exp Med</i> , 1993, 178: 669-74.		
	YR	Alexander-Miller, et al., "Alloreactive cytotoxic T lymphocytes generated in the presence of viral-derived peptides show exquisite peptide and MHC specificity," <i>J. Immunol.</i> , 1993, 151:1-10.		
	ZR	Allen RC, et al., "CD40 ligand gene defects responsible for X-linked hyper-IgM syndrome," <i>Science</i> , 1993, 259: 990-3.		
	AAR	Andersson J, et al., "T-cell-dependent B-cell stimulation is H-2 restricted and antigen dependent only at the resting B-cell level," <i>Proc Natl Acad Sci U S A</i> , 1980, 77: 1612-6.		
	BBR	Armitage RJ, et al., "Molecular and biological characterization of a murine ligand for CD40," <i>Nature</i> , 1992, 357: 80-2.		
	CCR	Aruffo A, et al., "The CD40 ligand, gp39, is defective in activated T cells from patients with X-linked hyper-IgM syndrome," <i>Cell</i> , 1993, 72: 291-300.		
	DDR	Bach JF, "Immunosuppressive therapy of autoimmune diseases," <i>Trends Pharmacol Sci.</i> , 1993, 14(5):213-6.		
	EER	Bartlett WC, et al., "Cognate interactions between helper T cells and B cells. II. Dissection of cognate help by using a class II-restricted, antigen-specific, IL-2-dependent helper T cell clone," <i>J Immunol</i> , 1989, 143:1745-54.		
	FFR	Bartlett WC, et al., "Cognate interactions between helper T cells and B cells. IV. Requirements for the expression of effector phase activity by helper T cells," <i>J Immunol</i> , 1990, 145: 3956-62.		
	GGR	Bebbington CR, et al., "High-level expression of a recombinant antibody from myeloma cells using a glutamine synthetase gene as an amplifiable selectable marker," <i>Biol. Technology</i> , 1992, 10:169.		
	HHR	Benhar et al., "Rapid humanization of the Fv of monoclonal antibody B3 by using framework exchange of the recombinant immunotoxin B3(Fv)-PE38," <i>Proc. Natl. Acad. Sci. USA</i> , 1994, 91:12051-5.		
	IIR	Bhatia S., et al., "In vivo administration of anti-CD40 ligand (gp39) blocks the rejection of MHC class II disparate skin allografts," 9 th Intl. Congress of Immunology, July 23-29, 1995, San Francisco, CA, p. 311.		
	JJR	Biancone L. et al., Inhibition of the CD40-CD40ligand pathway prevents murine membranous glomerulonephritis," <i>Kidney Int.</i> , 1995, 48(2):458-68.		
	KKR	Brennan FM, et al., "Enhanced expression of tumor necrosis factor receptor mRNA and protein in mononuclear cells isolated from rheumatoid arthritis synovial joints," <i>Eur J Immunol</i> , 1992, 22: 1907-12.		
	LLR	Brian AA, "Stimulation of B-cell proliferation by membrane-associated molecules from activated T cells," <i>Proc Natl Acad Sci U S A</i> , 1988, 85: 564-8.		
	MMR	Bulens et al., "Construction and characterization of a functional chimeric murine-human antibody directed against human fibrin fragment-D dimer," <i>Eur. J. Biochem.</i> , 1991, 195:235-42.		
	NNR	Burns C, et al., "Anti-CD40 Ligand antibody treatment of NZB/NZW murine lupus-like nephritis," <i>Arthritis and Rheumatism</i> , 1994, 37(Suppl):S390 (Poster 1371).		
	OOR	Carlsson et al., "Human peripheral blood lymphocytes transplanted into SCID mice constitute in vivo culture system exhibiting several parameters found in a normal humoral immune response and are a source of immunocytes for the production of human monoclonal antibodies," <i>J. Immunol.</i> 1992, 148:1065.		
	PPR	Caron et al., "Biological and immunological features of humanized M195 (Anti-CD33) monoclonal antibodies," <i>Cancer Res.</i> , 1992, 52:6761-7.		
	QQR	Carroll et al., "Hybridoma fusion cell lines contain an aberrant kappa transcript," <i>Mol. Immunol.</i> , 1988, 10:991.		
	RRR	Cathcart ES, et al., "Experimental arthritis in a nonhuman primate. I. Induction by bovine type II collagen," <i>Lab Invest</i> , 1986, 54: 26-31.		
	SSR	Chaudhary VK, et al., "A recombinant immunotoxin consisting of two antibody variable domains fused to Pseudomonas exotoxin," <i>Nature</i> , 1989, 339:394-7.		
	TTR	Chu CQ, et al., "Localization of tumor necrosis factor alpha in synovial tissues and at the cartilage-pannus junction in patients with rheumatoid arthritis," <i>Arthritis Rheum</i> , 1991, 34: 1125-32.		
	UUR	Claman HN and Chaperon, "Immunologic complementation between thymus and marrow cells--a model for the two-cell theory of immunocompetence," <i>Transplant Rev</i> , 1969, 1: 92-113.		
	VVR	Clark EA, et al., "CD40: a cytokine receptor in search of a ligand," <i>Tissue Antigens</i> , 1990, 36: 33-6.		
	WWR	Clark EA et al., "How B and T cells talk to each other," <i>Nature</i> , 1994, 367(6462):425-8.		
	XXR	Clement LT, et al., "Small, resting B cells can be induced to proliferate by direct signals from activated helper T cells," <i>J Immunol</i> , 1984, 132: 740-4.		
	YYR	Cobbold SP, et al., "Monoclonal antibodies to promote marrow engraftment and tissue graft tolerance," <i>Nature</i> , 1986, 323(6084):164-6.		
	ZZR	Colcher et al., "Characterization and biodistribution of recombinant and recombinant/chimeric constructs of monoclonal antibody B72.3," <i>Cancer Res.</i> , 1989, 49:1738-45.		

AAAR	Coloma, et al., "Novel vectors for the expression of antibody molecules using variable regions generated by polymerase chain reaction," <i>J. Immunol. Meth.</i> , 1992, 152:89-104.
BBBR	Courtenay et al., "Immunisation against heterologous type II collagen induces arthritis in mice," <i>Nature</i> , 1980, 283(5748):666-8.
CCCR	Couto et al., "Humanization of KC4G3, an antihuman carcinoma antibody," <i>Hybridoma</i> , 1994, 13(3):215-9.
DDDR	Cox et al., "A directory of human germ-line Vx segments reveals a strong bias in their usage," <i>Eur. J. Immunol.</i> , 1994, 24:827-36.
EEER	Crow et al., "Direct T Helper-B cell interactions induce an early B cell activation antigen," <i>J Exp Med.</i> , 1986, 164:1760-72.
FFFR	Crow et al., "Human peripheral blood T helper cell-induced B cell activation results in B cell surface expression of the CD23 (BLAST-2) antigen," <i>Cell Immunol.</i> 1989, 121(1):99-112.
GGGR	De Waele et al., "Expression in non-lymphoid cells of mouse recombinant immunoglobulin directed against the tumour marker human placental alkaline phosphatase," <i>Eur. J. Biochem.</i> , 1988, 176:287-95.
HHHR	DiGiovane et al., "tumour necrosis factor in synovial exudates," <i>Ann. Rheum. Dis.</i> , 1988, 47:68.
IIIR	Dillman RO, "Monoclonal antibodies for treating cancer." <i>Ann Intern Med.</i> ,1989, 111(7):592-603.
JJJR	DiSanto JP, et al., "CD40 ligand mutations in x-linked immunodeficiency with hyper-IgM," <i>Nature</i> , 1993, 361: 541-3.
KKKR	Dorai et al., "The effect of dihydrofolate reductase-mediated gene amplification on the expression of transfected immunoglobulin genes," <i>J. Immunol.</i> , 1987, 139(12):4232-41.
LLLR	Duchosal et al., "The hu-PBL-SCID mouse model. Long-term human serologic evolution associated with the xenogeneic transfer of human peripheral blood leukocytes into SCID mice," <i>Cell Immunol.</i> , 1992, 139:468.
MMMR	Durie FH, et al., "Prevention of collagen-induced arthritis with an antibody to gp39, the ligand for CD40," <i>Science</i> , 1993, 261: 1328-30.
NNNR	Durie, FH, et al., "Allogeneic Tolerance Induced by Treatment with an antibody to the ligand for DC40," 1994, FASEB Journal, Abstracts Part I, Ab. No. 2763, Vol. 8, No. 4, p. a477.
OOOR	Eynon EE, et al., "Small B cells as antigen-presenting cells in the induction of tolerance to soluble protein antigens," <i>J Exp Med.</i> 1992, 175(1):131-8.
PPPR	Fanslow WC et al., "Soluble forms of CD40 inhibit biologic responses of human B cells," <i>J Immunol.</i> , 1992 149(2):655-60.
QQQR	Foy et al., "In vivo CD40-gp39 interactions are essential for thymus-dependent humoral immunity. II. Prolonged suppression of the humoral immune response by an antibody to the ligand for CD40, gp39," <i>J Exp Med.</i> , 1993, 178(5):1567-75.
RRRR	Foy et al., "gp39-CD40 interactions are essential for germinal center formation and the development of B cell memory," <i>J Exp Med.</i> , 1994, 180(1):157-63.
SSSR	French DL, et al., "The molecular and biochemical characterization of mutant monoclonal antibodies with increased antigen binding," <i>J Immunol</i> , 1991, 146: 2010-6.
TTTR	Friedman SM, et al., "Human helper-T-cell function does not require T4 antigen expression," <i>Cell Immunol</i> , 1986, 103: 105-19.
UUUR	Galy AH, et al., "CD40 is functionally expressed on human thymic epithelial cells," <i>J Immunol</i> , 1992, 149: 775-82.
VVVR	Gordon J, et al., "Resting B lymphocytes can be triggered directly through the CDw40 (Bp50) antigen. A comparison with IL-4-mediated signaling," <i>J Immunol</i> , 1988, 140: 1425-30.
WWWR	Gray D et al., "Memory B cell development but not germinal center formation is impaired by in vivo blockade of CD40-CD40 ligand interaction," <i>J Exp Med.</i> , 1994, 180(1):141-55.
XXXR	Gruber MF, et al., "Anti-CD45 inhibition of human B cell proliferation depends on the nature of activation signals and the state of B cell activation. A study with anti-IgM and anti-CDw40 antibodies," <i>J Immunol</i> , 1989, 142: 4144-52.
YYR	Grusby MJ, et al., "Depletion of CD4+ T cells in major histocompatibility complex class II-deficient mice," <i>Science</i> , 1991, 253: 1417-20.
ZZZR	Harris, "Therapeutic antibodies- the coming of age," <i>Tibtech</i> , 1993, 11:42-44.
AAAAR	Hirohata S, et al., "T cell-dependent activation of B cell proliferation and differentiation by immobilized monoclonal antibodies to CD3," <i>J Immunol</i> , 1988, 140: 3736-44.
BBBBR	Hodgkin PD, et al., "Separation of events mediating B cell proliferation and Ig production by using T cell membranes and lymphokines," <i>J Immunol</i> , 1990, 145: 2025-34.
CCCCR	Hollenbaugh D, et al., "The human T cell antigen gp39, a member of the TNF gene family, is a ligand for the CD40 receptor: expression of a soluble form of gp39 with B cell co-stimulatory activity," <i>Embo J</i> , 1992, 11: 4313-21.

DDDDR	Hollenbaugh D, et al., "The role of CD40 and its ligand in the regulation of the immune response," <i>Immunol Rev</i> , 1994, 138: 23-37.
EEEEER	Janeway CA, Jr., et al., "CD4+ T cells: specificity and function," <i>Immunol. Rev.</i> , 1988, 101: 39-80.
FFFFR	Jones ST et al., "Rapid PCR-cloning of full-length mouse immunoglobulin variable regions," <i>Biotechnology</i> , 1991 Jun;9(6):579.
GGGGR	Jones B, et al., "Cooperative interaction of B lymphocytes with antigen-specific helper T lymphocytes is MHC restricted," <i>Nature</i> , 1981, 292: 547-9.
HHHHR	Jones PT, et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," <i>Nature</i> , 1986, 321: 522-5.
IIIIIR	Jover JA, et al., "T helper cell-induced CD23 (BLAST-2) expression: an activation marker for the high density fraction of human B cells," <i>Clin Immunol Immunopathol</i> , 1989, 53: 99-112.
JJJJR	Julius et al., "T helper cell-dependent induction of resting B cell differentiation need not require cognate cell interactions," <i>Eur. J. Immunol.</i> , 1982, 18:375.
KKKKR	Katz DH, et al., "Cell interactions between histoincompatible T and B lymphocytes. The H-2 gene complex determines successful physiologic lymphocyte interactions," <i>Proc Natl Acad Sci U S A</i> , 1973, 70: 2624-8.
LLLLR	King et al., "Expression, purification and characterization of a mouse-human chimeric antibody and chimeric antibody and chimeric Fab' fragment," <i>Biochem. J.</i> , 1992, 281:317-323.
MMMMR	King et al., "Expression purification and characterization of B72.3 Fv fragments," <i>Biochem J</i> , 1993, 290:723-9.
NNNNR	Korthauer U, et al., "Defective expression of T-cell CD40 ligand causes X-linked immunodeficiency with hyper-IgM," <i>Nature</i> , 1993, 361: 539-41.
OOOOR	Krusemeier M, et al., "Induction of lymphokine responsiveness of hapten-specific B lymphocytes promoted through an antigen-mediated T helper lymphocyte interaction," <i>J Immunol</i> , 1988, 140: 367-75.
PPPPR	Kubota E, et al., "Role of T cells in the B-cell response: glutaraldehyde-fixed T-helper hybridoma cells synergize with the lymphokine IL-4 to induce B-cell activation and proliferation," <i>Immunology</i> , 1991, 72: 40-7.
QQQQR	Kupfer A, et al., "The specific direct interaction of helper T cells and antigen-presenting B cells. II. Reorientation of the microtubule organizing center and reorganization of the membrane-associated cytoskeleton inside the bound helper T cells," <i>J Exp Med</i> , 1987, 165: 1565-80.
RRRRR	Kupfer A, et al., "Cell biology of cytotoxic and helper T cell functions: immunofluorescence microscopic studies of single cells and cell couples," <i>Annu. Rev. Immunol.</i> , 1987, 7:309.
SSSSR	Lane P, et al., "Activated human T cells express a ligand for the human B cell-associated antigen CD40 which participates in T cell-dependent activation of B lymphocytes," <i>Eur J Immunol</i> , 1992, 22: 2573-8.
TTTTTR	Larsen CP, et al., "CD40-gp39 interactions play a critical role during allograft rejection. Suppression of allograft rejection by blockade of the CD40-gp39 pathway," <i>Transplantation</i> , 1996, 61(1):4-9.
UUUUR	Lederman S, et al., "Identification of a novel surface protein on activated CD4+ T cells that induces contact-dependent B cell differentiation (help)," <i>J Exp Med</i> , 1992, 175: 1091-101.
VVVVR	Lederman S, et al., "Molecular interactions mediating T-B lymphocyte collaboration in human lymphoid follicles. Roles of T cell-B-cell-activating molecule (5c8 antigen) and CD40 in contact-dependent help," <i>J Immunol</i> , 1992, 149: 3817-26.
WWWWR	Lenschow DJ, et al., "Long-term survival of xenogeneic pancreatic islet grafts induced by CTLA4Ig," <i>Science</i> , 1992, 257(5071):789-92.
XXXXR	Lin H, et al., "Long-term acceptance of major histocompatibility complex mismatched cardiac allografts induced by CTLA4Ig plus donor-specific transfusion," <i>J Exp Med.</i> , 1993, 178(5):1801-6.
YYYYR	Linsley et al., "Immunosuppression in vivo by a soluble form of the CTLA-4 T cell activation molecule," <i>Science</i> , 1992, 257(5071):792-5.
ZZZZR	Marshall et al., "The molecular basis for T cell help in humoral immunity: CD40 and its ligand, gp39," <i>J. Clin. Immunology</i> , 1993, 3(3):165-173.
AAAAAR	Martinez et al., B-cell activation by helper cells is a two-step process," <i>Nature</i> , 290:60 (1981).
BBBBBR	Martenson RE, "Myellin Basic Protein Speciation" in <u>Experimental Allergic Encephalomyelitis: A Useful Model for Multiple Sclerosis</u> , pp. 511-521 (Alan R. Liss, Inc., NY, 1984).
CCCCCR	Mathison JC, et al., "In vivo interaction of bacterial lipopolysaccharide (LPS) with rabbit platelets: modulation by C3 and high density lipoproteins," <i>J Immunol</i> . 1981, 126(4):1575-80."
DDDDDR	McCune et al., "The SCID-hu mouse: Murine model for the analysis fo human hematolymphoid differentiation and function," <i>Science</i> , 1988, 241:1632.
EEEEER	Mitchell GF, et al., "Cell to cell interaction in the immune response. II. The source of hemolysin-forming cells in irradiated mice given bone marrow and thymus or thoracic duct lymphocytes," <i>J Exp Med</i> , 1968, 128: 821-37.
FFFFFR	Mitchison NA, "The carrier effect in the secondary response to hapten-protein conjugates. II. Cellular cooperation," <i>Eur J Immunol</i> , 1971, 1: 18-27.

GGGGGR	Mitchison NA, "The carrier effect in the secondary response to hapten-protein conjugates. V. Use of antilymphocyte serum to deplete animals of helper cells," <i>Eur J Immunol</i> , 1971, 1: 68-75.
HHHHHR	Mohan C, et al., "Long-term benefits of a brief anti-GP39 therapy in murine lupus," <i>Arthritis and Rheumatism</i> , 1994, 39(Suppl):S369 (#1248).
IIIIIR	Monaco A., "Methods of inducing immunological tolerance to tissue allografts and xenografts," <i>Immunomethods</i> , 1993, 2:159-170.
JJJJJR	Morrison SL, et al., "Chimeric human antibody molecules: mouse antigen-binding domains with human constant region domains," <i>Proc Natl Acad Sci U S A</i> , 1984, 81: 6851-5.
KKKKKR	Morrison and Oi, "Genetically engineered antibody molecules," <i>Adv. Immunol.</i> , 1988, 44:65,
LLLLLR	Nishimura Y, et al., "Recombinant human-mouse chimeric monoclonal antibody specific for common acute lymphocytic leukemia antigen," <i>Cancer Res</i> , 1987, 47: 999-1005.
MMMMMR	Nishioka et al., "The role of CD40-CD40 ligand interaction interaction in human T cell-B cell collaboration," <i>J. Immunol.</i> , 1994, 153:1027.
NNNNNR	Noelle RJ, et al., "T helper cells," <i>Curr Op. Immunol.</i> , 1992, 4:333-337.
OOOOOR	Noelle RJ, et al., "Cognate interactions between helper T cells and B cells. III. Contact-dependent, lymphokine-independent induction of B cell cycle entry by activated helper T cells," <i>J Immunol</i> , 1989, 143: 1807-14.
PPPPPR	Noelle RJ, et al., "Cognate interactions between helper T cells and B cells," <i>Immunol Today</i> , 1990, 11: 361-8.
QQQQQR	Noelle RJ, et al., "T helper cell-dependent B cell activation," <i>Faseb J</i> , 1991, 5: 2770-6.
RRRRRR	Noelle RJ, et al., "Cognate interactions between helper T cells and B cells. V. Reconstitution of T helper cell function using purified plasma membranes from activated Th1 and Th2 T helper cells and lymphokines," <i>J Immunol</i> , 1991, 146: 1118-24.
SSSSSR	Noelle RJ, et al., "A 39-kDa protein on activated helper T cells binds CD40 and transduces the signal for cognate activation of B cells," <i>Proc Natl Acad Sci U S A</i> , 1992, 89: 6550-4.
TTTTTR	O'Brien RL, et al., "B cells expressing Ig transgenes respond to a T-dependent antigen only in the presence of Ia-compatible T cells," <i>J Immunol</i> , 1988, 141: 3335-41.
UUUUUR	Padlan EA, "A possible procedure for reducing the immunogenicity of antibody variable domains while preserving their ligand-binding properties," <i>Mol Immunol</i> , 1991, 28: 489-98.
VVVVVR	Padlan EA, "Anatomy of the antibody molecule," <i>Mol Immunol</i> , 1994, 31: 169-217.
WWWWWR	Page et al., "High level expression of the humanized monoclonal antibody campath-1H in Chinese hamster ovary cells," <i>Biol. Technology</i> , 1991, 9:64.
XXXXXR	Berzofsky and Berkower, "Immunogenicity and Antigen Structure, in <u>Fundamental Immunology</u> , 3 rd ed., Raven Press, NY, 1993, p. 242 only.
YYYYYR	Paulie et al., "The human B lymphocyte and carcinoma antigen, CDw40, is a phosphoprotein involved in growth signal transduction," <i>J Immunol.</i> , 1989, 142(2):590-5.
ZZZZZR	Pollok et al., "The development of competence in resting B cells. The induction of cyclic AMP and ornithine decarboxylase activity after direct contact between B and T helper cells," <i>J Immunol</i> , 1991, 146: 1633-41.
AAAAAAR	Poo WJ, et al., "Receptor-directed focusing of lymphokine release by helper T cells," <i>Nature</i> , 1988, 332: 378-80.
BBBBBBR	Press Release from Biogen, Inc., "Biogen says it has halted several trials of anti-CD40 ligand monoclonal antibody," PR Newswire, 10/21/99.
CCCCCR	Press Release from Biogen, Inc., "Biogen says it has stopped ongoing trilas of anti-CD40 ligand monoclonal antibody," PR Newswire, 11/2/99.
DDDDDDR	Press Release from IDEC Pharmaceuticals, Inc., 4/20/00.
EEEEER	Pulito VL, et al., "Humanization and molecular modeling of the anti-CD4 monoclonal antibody, OKT4A," <i>J Immunol.</i> , 1996, 156(8):2840-50. (2840 only).
FFFFFFR	Queen C, et al., "A humanized antibody that binds to the interleukin 2 receptor," <i>Proc Natl Acad Sci U S A</i> , 1989, 86: 10029-33.
GGGGGGR	Raff MC, "Role of thymus-derived lymphocytes in the secondary humoral immune response in mice," <i>Nature</i> , 1970, 226: 1257-8.
HHHHHHR	Rahemtulla A, et al., "Normal development and function of CD8+ cells but markedly decreased helper cell activity in mice lacking CD4," <i>Nature</i> , 1991, 353: 180-4.
IIIIIR	Ranheim EA, et al., "Activated T cells induce expression of B7/BB1 on normal or leukemic B cells through a CD40-dependent signal," <i>J Exp Med.</i> , 1993, 177(4):925-35.

JJJJJJR	Reff, et al., "Depletion of B cells in vivo by a chimeric mouse human monoclonal antibody to CD20," <i>Blood</i> , 1994, 83:425.
KKKKKKR	Reinherz EL, et al., "Separation of functional subsets of human T cells by a monoclonal antibody," <i>Proc Natl Acad Sci U S A</i> , 1979, 76: 4061-5.
LLLLLLR	Resetkova E, et al., "Antibody to gp39, the ligand for CD40 significantly inhibits the humoral response from Graves' thyroid tissues xenografted into severe combined immunodeficient (SCID) mice," <i>Thyroid</i> , 1996, Aug;6(4):267-73.
MMMMMMR	Riechmann L, et al., "Reshaping human antibodies for therapy," <i>Nature</i> , 1988, 332: 323-7.
NNNNNNR	Rogozinski L, et al., "The T4 surface antigen is involved in the induction of helper function," <i>J Immunol</i> , 1984, 132: 735-9.
OOOOOOR	Rossini A A, et al., "Induction of immunological tolerance to islet allografts," <i>Cell Transplant.</i> , 1996, 5(1):49-52.
PPPPPPR	Roy M, et al., "The regulation of the expression of gp39, the CD40 ligand, on normal and cloned CD4+ T cells," <i>J Immunol</i> , 1993, 151: 2497-510.
QQQQQQR	Sanders VM, et al., "Characterization of the physical interaction between antigen-specific B and T cells," <i>J Immunol</i> , 1986, 137: 2395-404.
RRRRRRR	Saragovi et al., "Design and synthesis of a mimetic from an antibody complementarity-determining region," <i>Science</i> , 1991, 253:792-5.
SSSSSSR	Seachrist L., "Biogen halts trials of antova after reporting adverse events," <i>Bioworld Today</i> , 10/25/99, 10(204):1,3.
TTTTTTR	Sekita K, et al., "B cell-stimulating activity of lymphoid cell membrane fractions," <i>Eur J Immunol</i> , 1988, 18: 1405-10.
UUUUUUR	Sharabi Y, et al., "Mixed chimerism and permanent specific transplantation tolerance induced by a nonlethal preparative regimen," <i>J Exp Med.</i> , 1989, 169(2):493-502.
VVVVVVR	Sharkey RM, et al., "Evaluation of a complementarity-determining region-grafted (humanized) anti-carcinoembryonic antigen monoclonal antibody in preclinical and clinical studies," <i>Cancer Res.</i> , 1995, 55(23 Suppl):5935s-5945s.
WWWWWWR	Singer et al., "Optimal humanization of 1B4, an anti-CD18 murine monoclonal antibody, is achieved by correct choice of human V-region framework sequences," <i>J. Immunol.</i> , 1993, 150:2844-57.
XXXXXXR	Snow et al., "Activation of antigen-enriched B cells. II. Role of linked recognition in B cell proliferation to thymus-dependent antigens," <i>J. Immunol.</i> , 1983, 130:614.
YYYYYYR	Sprent J, "Restricted helper function of F1 hybrid T cells positively selected to heterologous erythrocytes in irradiated parental strain mice. II. Evidence for restrictions affecting helper cell induction and T-B collaboration, both mapping to the K-end of the H-2 complex," <i>J Exp Med</i> , 1978, 147: 1159-74.
ZZZZZZR	Sprent J, "Role of H-2 gene products in the function of T helper cells from normal and chimeric mice in vivo," <i>Immunol Rev</i> , 1978, 42: 108-37.
AAAAAAAR	Spriggs MK, et al., "Recombinant human CD40 ligand stimulates B cell proliferation and immunoglobulin E secretion," <i>J Exp Med</i> , 1992, 176: 1543-50.
BBBBBBBR	Stamenkovic I, et al., "A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas," <i>Embo J</i> , 1989, 8: 1403-10.
CCCCCCCR	Stuber E, et al., "Blocking the CD40L-CD40 interaction in vivo specifically prevents the priming of T helper 1 cells through the inhibition of interleukin 12 secretion," <i>J Exp Med.</i> , 1996, 183(2):693-8.
DDDDDDDR	Tisch R, et al. "Antigen-specific immunotherapy: is it a real possibility to combat T-cell-mediated autoimmunity?" <i>Proc Natl Acad Sci U S A</i> , 1994, 91(2):437-8.
EEEEEEER	Thompson CB, et al., "T cell-derived B cell growth factor(s) can induce stimulation of both resting and activated B cells," <i>J Immunol</i> , 1985, 134: 369-74.
FFFFFFFR	Thorbecke GJ, et al., "Involvement of endogenous tumor necrosis factor alpha and transforming growth factor beta during induction of collagen type II arthritis in mice," <i>Proc Natl Acad Sci U S A</i> , 1992, 89: 7375-9.
GGGGGGGR	Tohma S, et al., "Analysis of the mechanisms of T cell-dependent polyclonal activation of human B cells. Induction of human B cell responses by fixed activated T cells," <i>J Immunol</i> , 1991, 146: 2544-52.
HHHHHHHR	Tohma S, et al., "The role of CD11a/CD18-CD54 interactions in human T cell-dependent B cell activation," <i>J Immunol.</i> , 1991, 146(2):492-9.
IIIIIIIR	Trentham DE, et al., "Autoimmunity to type II collagen an experimental model of arthritis," <i>J Exp Med</i> , 1977, 146: 857-68.
JJJJJJJR	Turka LA, et al., "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection in vivo," <i>Proc Natl Acad Sci U S A</i> , 1992, 89(22):11102-5.
KKKKKKKR	Valle A, et al., "Activation of human B lymphocytes through CD40 and interleukin 4," <i>Eur J Immunol</i> , 1989, 19: 1463-7.

	LLLLLLLR	Van der Eetwegh et al., "In vivo CD40-gp39 interactions are essential for thymus-dependent humoral immunity. I. In vivo expression of CD40 ligand, cytokines, and antibody production delineates sites of cognate T-B cell interactions," <i>J. Exp. Med.</i> , 1993, 178:1555.
	MMMMMMMR	Verhoeyen et al., "Reshaping human antibodies: grafting an antilysozyme activity," <i>Science</i> , 1988, 239:1539.
	NNNNNNNR	Vitetta ES, et al., "Cellular interactions in the humoral immune response," <i>Adv Immunol</i> , 1989, 45: 1-105.
	OOOOOOOR	Waldmann H, "Manipulation of T-cell responses with monoclonal antibodies," <i>Annu. Rev. Immunol.</i> , 1989, 7:407-444.
	PPPPPPPR	Waldmann TA, Immune receptors: targets for therapy of leukemia/lymphoma, autoimmune diseases and for the prevention of allograft rejection," <i>Annu. Rev. Immuno.</i> , 1992, 10:675-704.
	QQQQQQQR	Waldmann TA, "Monoclonal antibodies in diagnosis and therapy," <i>Science</i> , 1991, 152:1657-1662.
	RRRRRRRR	Watson et al., "Recombinant DNA," 2 nd Ed., Scientif. Ameri. Books, NY, NY (1992).
	SSSSSSSR	Wee S, et al., "Anti-CD4 mAb therapy significantly delays the alloantibody response in a cynomolgus renal transplant model," <i>Transplantation</i> , 1994, 58(2):261-4..
	TTTTTTR	Whalen BJ, et al., "Characterization of the effector mechanism of help for antigen-presenting and bystander resting B cell growth mediated by Ia-restricted Th2 helper T cell lines," <i>J Immunol</i> , 1988, 141: 2230-9.
	UUUUUUUR	White et al., "T-lymphocyte heterogeneity in the rat: separation of functional subpopulations using a monoclonal antibody," <i>J Exp Med.</i> , 1978, 14:664.
	VVVVVVR	Yellin MJ et al., "A human CD4- T cell leukemia subclone with contact-dependent helper function" <i>J. Immunol.</i> , 1991, 147:3389-3395.
	WWWWWWWR	Zamvill SS, et al., "The T lymphocyte in experimental allergic encephalomyelitis," <i>Annu Rev Immunol.</i> , 1990, 8:579.
	XXXXXXR	Zinkernagel RM, "T helpers may be sensitized by antigen-specifically altered structures, which are coded by the I region of the H-2 gene complex," <i>Adv Exp Med Biol</i> , 1976, 66: 527-30.
Examiner		Date Considered:
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